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6/13/07

In the Claims

1 (currently amended). A purified or recombinant Lipolysis Stimulated Receptor, wherein said receptor comprises a polypeptide having at least 90% homology to the polypeptide of SEQ ID NO: 8 and wherein said polypeptide has at least one biological activity selected from the group consisting of fatty acid binding, clathrin binding, ~~a transport signal~~, leptin binding, ~~a RSRS motif~~ and lipoprotein binding.

2 (previously presented). A purified or recombinant Lipolysis Stimulated Receptor that a) comprises the amino acid sequence of SEQ ID NO:8; or b) consists of the amino acid sequence of SEQ ID NO:8.

3-9 (canceled).

10 (previously presented). The purified or recombinant receptor of claim 2, wherein said receptor comprises the amino acid sequence of SEQ ID NO:8.

11 (previously presented). The purified or recombinant receptor of claim 2, wherein said receptor consists of the amino acid sequence of SEQ ID NO:8.

12 (previously presented). An isolated or recombinant biologically active polypeptide fragment of SEQ ID NO: 8, said fragment comprising an amino acid sequence selected from the group consisting of:

- a) an amino acid sequence spanning amino acids 76 to 94 of SEQ ID NO:8;
- b) an amino acid sequence spanning amino acids 76 to 160 of SEQ ID NO:8;
- c) an amino acid sequence spanning amino acids 76 to 237 of SEQ ID NO:8;
- d) an amino acid sequence spanning amino acids 157 to 249 of SEQ ID NO:8;
- e) an amino acid sequence spanning amino acids 236 to 530 of SEQ ID NO:8;